[4910-13-P]

#### DEPARTMENT OF TRANSPORTATION

**Federal Aviation Administration** 

**14 CFR Part 39** 

[Docket No. FAA-2022-0016; Project Identifier MCAI-2021-00945-T]

RIN 2120-AA64

Airworthiness Directives; Bombardier, Inc., Airplanes

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Notice of proposed rulemaking (NPRM).

SUMMARY: The FAA proposes to adopt a new airworthiness directive (AD) for certain Bombardier, Inc., Model BD-100-1A10 airplanes. This proposed AD was prompted by a report that the nose wheel steering selector valve (SSV) can be slow to deactivate under low temperature conditions. This proposed AD would require replacing the affected nose wheel SSV with a redesigned nose wheel SSV, and performing an operational test of the nose wheel SSV and nose wheel steering control system. This proposed AD would also prohibit the installation of a certain nose wheel SSV. The FAA is proposing this AD to address the unsafe condition on these products.

**DATES:** The FAA must receive comments on this proposed AD by [INSERT DATE 45 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

**ADDRESSES:** You may send comments, using the procedures found in 14 CFR 11.43 and 11.45, by any of the following methods:

- Federal eRulemaking Portal: Go to https://www.regulations.gov. Follow the instructions for submitting comments.
  - Fax: 202-493-2251.
- Mail: U.S. Department of Transportation, Docket Operations, M-30, West
   Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE, Washington, DC

Hand Delivery: Deliver to Mail address above between 9 a.m. and 5 p.m.,
 Monday through Friday, except Federal holidays.

For service information identified in this NPRM, contact Bombardier Business Aircraft Customer Response Center, 400 Côte-Vertu Road West, Dorval, Québec H4S 1Y9, Canada; telephone 514-855-2999; email ac.yul@aero.bombardier.com; Internet http://www.bombardier.com. You may view this service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195.

### **Examining the AD Docket**

You may examine the AD docket at https://www.regulations.gov by searching for and locating Docket No. FAA-2022-0016; or in person at Docket Operations between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this NPRM, any comments received, and other information. The street address for Docket Operations is listed above.

FOR FURTHER INFORMATION CONTACT: Chirayu Gupta, Aerospace Engineer, Mechanical Systems and Administrative Services Section, FAA, New York ACO Branch, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516-228-7300; fax 516-794-5531; email 9-avs-nyaco-cos@faa.gov.

### **SUPPLEMENTARY INFORMATION:**

### **Comments Invited**

The FAA invites you to send any written relevant data, views, or arguments about this proposal. Send your comments to an address listed under ADDRESSES. Include "Docket No. FAA-2022-0016; Project Identifier MCAI-2021-00945-T" at the beginning of your comments. The most helpful comments reference a specific portion of the

proposal, explain the reason for any recommended change, and include supporting data.

The FAA will consider all comments received by the closing date and may amend the proposal because of those comments.

Except for Confidential Business Information (CBI) as described in the following paragraph, and other information as described in 14 CFR 11.35, the FAA will post all comments received, without change, to https://www.regulations.gov, including any personal information you provide. The agency will also post a report summarizing each substantive verbal contact received about this NPRM.

### **Confidential Business Information**

CBI is commercial or financial information that is both customarily and actually treated as private by its owner. Under the Freedom of Information Act (FOIA) (5 U.S.C. 552), CBI is exempt from public disclosure. If your comments responsive to this NPRM contain commercial or financial information that is customarily treated as private, that you actually treat as private, and that is relevant or responsive to this NPRM, it is important that you clearly designate the submitted comments as CBI. Please mark each page of your submission containing CBI as "PROPIN." The FAA will treat such marked submissions as confidential under the FOIA, and they will not be placed in the public docket of this NPRM. Submissions containing CBI should be sent to Chirayu Gupta, Aerospace Engineer, Mechanical Systems and Administrative Services Section, FAA, New York ACO Branch, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516-228-7300; fax 516-794-5531; email 9-avs-nyaco-cos@faa.gov. Any commentary that the FAA receives which is not specifically designated as CBI will be placed in the public docket for this rulemaking.

### **Background**

Transport Canada Civil Aviation (TCCA), which is the aviation authority for Canada, has issued TCCA AD CF-2021-29, dated August 18, 2021 (TCCA AD

CF-2021-29) (also referred to after this as the Mandatory Continuing Airworthiness Information, or the MCAI), to correct an unsafe condition for certain Bombardier, Inc., Model BD-100-1A10 airplanes. You may examine the MCAI in the AD docket at https://www.regulations.gov by searching for and locating Docket No. FAA-2022-0016.

This proposed AD was prompted by a report that the nose wheel SSV can be slow to deactivate under low temperature conditions. The FAA is proposing this AD to address a slow nose wheel SSV deactivation, which, in combination with an un-commanded steering input, could lead to a delayed transition to free castor mode and result in an aircraft runway excursion. See the MCAI for additional background information.

## **Related Service Information Under 1 CFR Part 51**

Bombardier has issued Service Bulletin 100-32-35, dated March 30, 2021, and Service Bulletin 350-32-011, dated March 30, 2021. This service information describes procedures for replacing the existing nose wheel SSV (part number 41130-107) with a redesigned nose wheel SSV (part number 41130-111), and performing an operational test of the nose wheel SSV and nose wheel steering control system. These documents are distinct since they apply to different airplane configurations. This service information is reasonably available because the interested parties have access to it through their normal course of business or by the means identified in the ADDRESSES section.

### **FAA's Determination**

This product has been approved by the aviation authority of another country, and is approved for operation in the United States. Pursuant to the FAA's bilateral agreement with the State of Design Authority, the FAA has been notified of the unsafe condition described in the MCAI and service information referenced above. The FAA is proposing this AD because the FAA evaluated all the relevant information and determined the unsafe condition described previously is likely to exist or develop on other products of the same type design.

### **Proposed AD Requirements in this NPRM**

This proposed AD would require accomplishing the actions specified in the service information already described.

## **Costs of Compliance**

The FAA estimates that this AD, if adopted as proposed, would affect 660 airplanes of U.S. registry. The FAA estimates the following costs to comply with this proposed AD:

## **Estimated costs for required actions**

Labor cost	Parts cost	Cost per product	Cost on U.S. operators
4 work-hours X \$85 per hour = \$340	\$5,793	\$6,133	\$4,047,780

### **Authority for this Rulemaking**

Title 49 of the United States Code specifies the FAA's authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. Subtitle VII: Aviation Programs, describes in more detail the scope of the Agency's authority.

The FAA is issuing this rulemaking under the authority described in Subtitle VII, Part A, Subpart III, Section 44701: General requirements. Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

### **Regulatory Findings**

The FAA determined that this proposed AD would not have federalism implications under Executive Order 13132. This proposed AD would not have a

substantial direct effect on the States, on the relationship between the national Government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify this proposed regulation:

- (1) Is not a "significant regulatory action" under Executive Order 12866,
- (2) Will not affect intrastate aviation in Alaska, and
- (3) Will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

## List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

# **The Proposed Amendment**

Accordingly, under the authority delegated to me by the Administrator, the FAA proposes to amend 14 CFR part 39 as follows:

### PART 39 - AIRWORTHINESS DIRECTIVES

1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

### § 39.13 [Amended]

2. The FAA amends § 39.13 by adding the following new airworthiness directive:

**Bombardier, Inc.:** Docket No. FAA-2022-0016; Project Identifier MCAI-2021-00945-T.

# (a) Comments Due Date

The FAA must receive comments on this airworthiness directive (AD) by [INSERT DATE 45 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

### (b) Affected ADs

None.

## (c) Applicability

This AD applies to Bombardier, Inc., Model BD-100-1A10 airplanes, certificated in any category, serial numbers 20003 through 20892 inclusive.

## (d) Subject

Air Transport Association (ATA) of America Code 32, Landing gear.

## (e) Unsafe Condition

This AD was prompted by a report that the nose wheel steering selector valve (SSV) can be slow to deactivate under low temperature conditions. The FAA is issuing this AD to address a slow nose wheel SSV deactivation, which, in combination with an un-commanded steering input, could lead to a delayed transition to free castor mode and result in an aircraft runway excursion.

### (f) Compliance

Comply with this AD within the compliance times specified, unless already done.

## (g) Replacement of Nose Wheel SSV

Within 36 months after the effective date of this AD: Replace the nose wheel SSV part number 41130-107 with the redesigned nose wheel SSV part number 41130-111; and before further flight, perform an operational test of the nose wheel SSV and nose wheel steering control system; in accordance with paragraphs 2.B. and 2.C. of the Accomplishment Instructions of the applicable service information specified in paragraphs (g)(1) and (2) of this AD. If any test fails, do applicable corrective actions and repeat the test until the part passes the test.

- (1) Bombardier Service Bulletin 100-32-35, dated March 30, 2021.
- (2) Bombardier Service Bulletin 350-32-011, dated March 30, 2021.

# (h) Parts Installation Prohibition

Do not install nose wheel SSV, part number 41130-107 on any airplane as of the applicable compliance time specified in paragraph (h)(1) or (h)(2) of this AD.

- (1) For airplanes that have nose wheel SSV, part number 41130-107 installed as of the effective date of this AD: After replacement of nose wheel SSV as required by paragraph (g) of this AD.
- (2) For airplanes that, as of the effective date of this AD, do not have nose wheel SSV, part number 41130-107 installed: As of the effective date of this AD.

## (i) No Reporting Requirement

Although the service information specified in paragraphs (g)(1) and (2) of this AD specifies to submit certain information to the manufacturer, this AD does not include that requirement.

# (j) Other FAA AD Provisions

The following provisions also apply to this AD:

- (1) Alternative Methods of Compliance (AMOCs): The Manager, New York ACO Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or responsible Flight Standards Office, as appropriate. If sending information directly to the manager of the certification office, send it to ATTN: Program Manager, Continuing Operational Safety, FAA, New York ACO Branch, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516-228-7300; fax 516-794-5531. Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the responsible Flight Standards Office.
- (2) Contacting the Manufacturer: For any requirement in this AD to obtain instructions from a manufacturer, the instructions must be accomplished using a method approved by the Manager, New York ACO Branch, FAA; or Transport Canada Civil Aviation (TCCA); or Bombardier, Inc.'s TCCA Design Approval Organization (DAO). If approved by the DAO, the approval must include the DAO-authorized signature.

### (k) Related Information

(1) Refer to Mandatory Continuing Airworthiness Information (MCAI) TCCA

AD CF-2021-29, dated August 18, 2021, for related information. This MCAI may be

found in the AD docket on the Internet at https://www.regulations.gov by searching for

and locating Docket No. FAA-2022-0016.

(2) For more information about this AD, contact Chirayu Gupta, Aerospace

Engineer, Mechanical Systems and Administrative Services Section, FAA, New York

ACO Branch, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516-

228-7300; fax 516-794-5531; email 9-avs-nyaco-cos@faa.gov.

(3) For service information identified in this AD, contact Bombardier Business

Aircraft Customer Response Center, 400 Côte-Vertu Road West, Dorval, Québec

H4S 1Y9, Canada; telephone 514-855-2999; email ac.yul@aero.bombardier.com;

Internet http://www.bombardier.com. You may view this service information at the FAA,

Airworthiness Products Section, Operational Safety Branch, 2200 South 216th St., Des

Moines, WA. For information on the availability of this material at the FAA, call 206-

231-3195.

Issued on January 20, 2022.

Lance T. Gant, Director,

Compliance & Airworthiness Division,

Aircraft Certification Service.

[FR Doc. 2022-01477 Filed: 1/26/2022 8:45 am; Publication Date: 1/27/2022]